FIG. 1

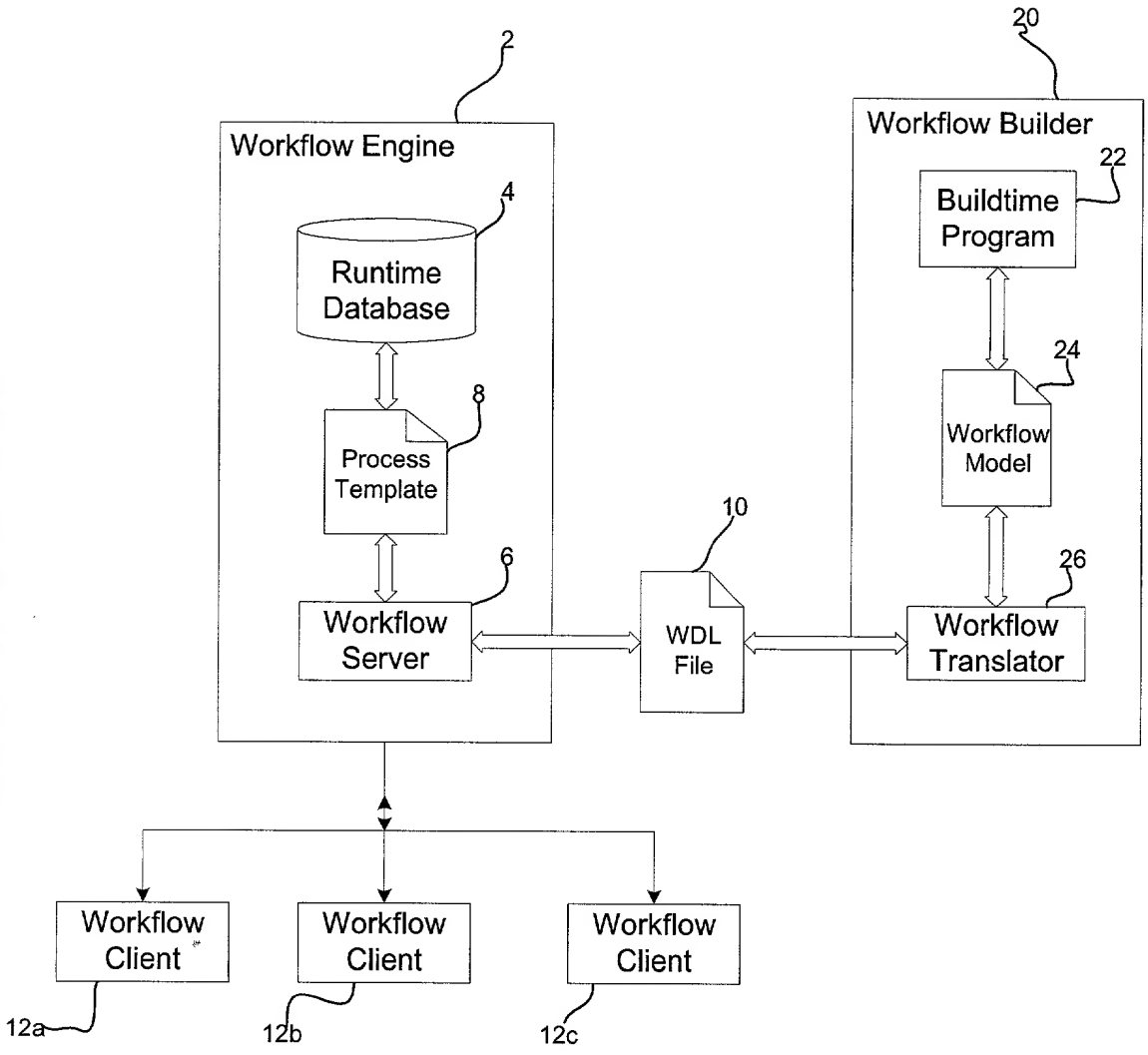

2
Workflow Engine
4
Runtime Database
8
Process Template
6
Workflow Server
20
Workflow Builder
22
Buildtime Program
24
Workflow Model
26
Workflow Translator
10
WDL File
Workflow Client
Workflow Client
Workflow Client
12a
12b
12c

FIG. 2

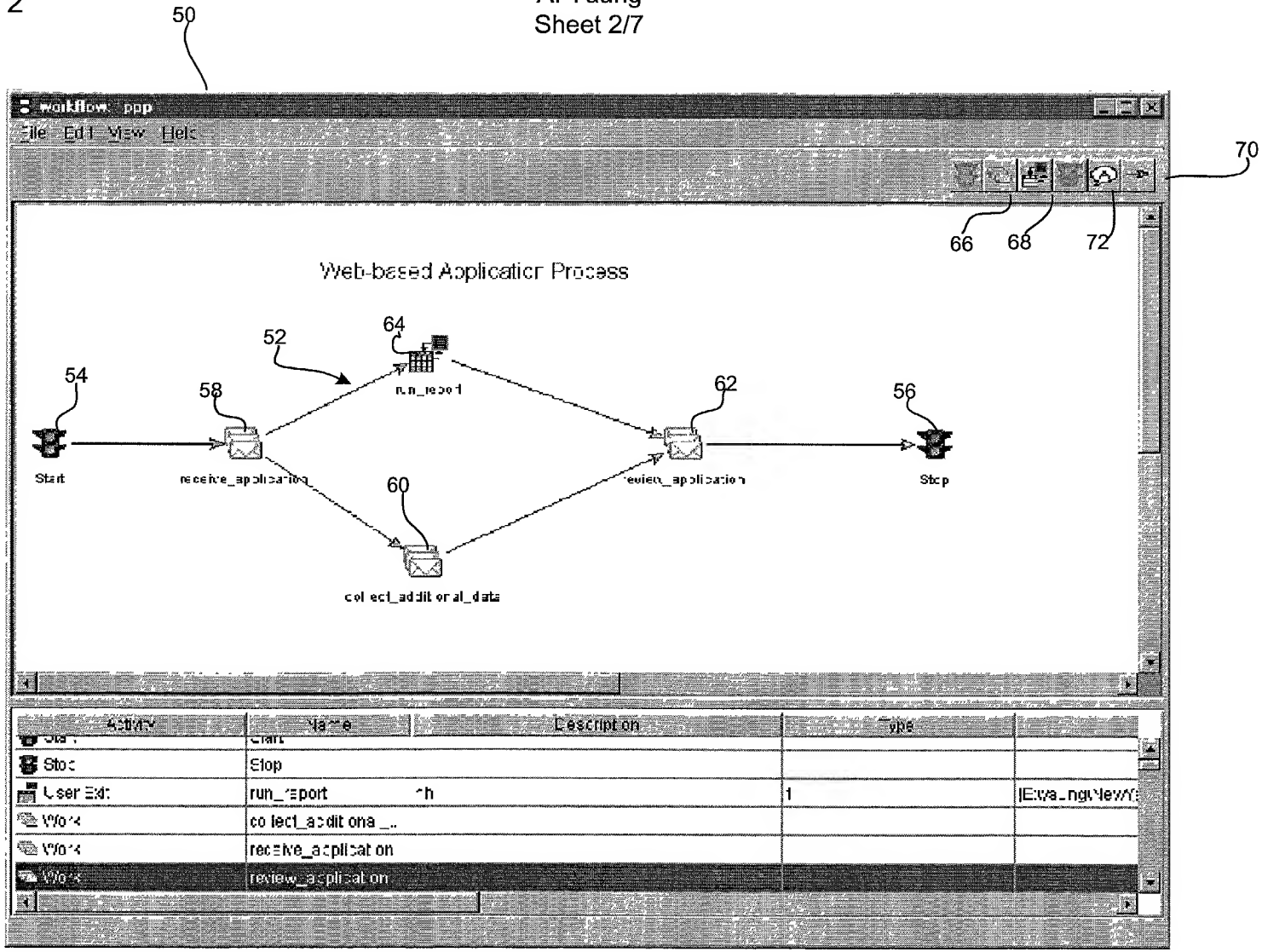
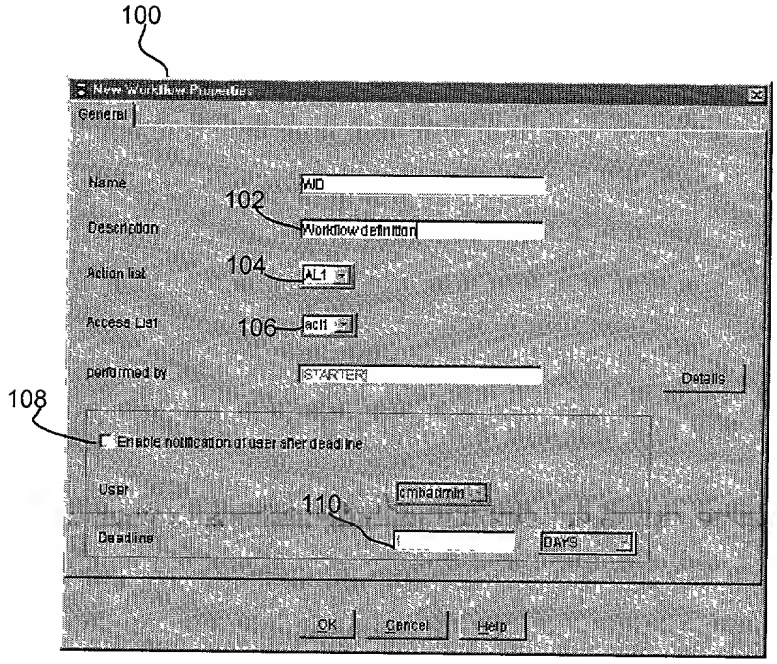

50
70
66
68
72
Web-based Application Process
64
52
54
58
62
56
Start
Stop
60
collect_additional_data
Activity
Name
Description
Type
Stop
Stop
User Exit
run_report
1
Work
collect_additional_...
Work
receive_application
Work
review_application

FIG. 3



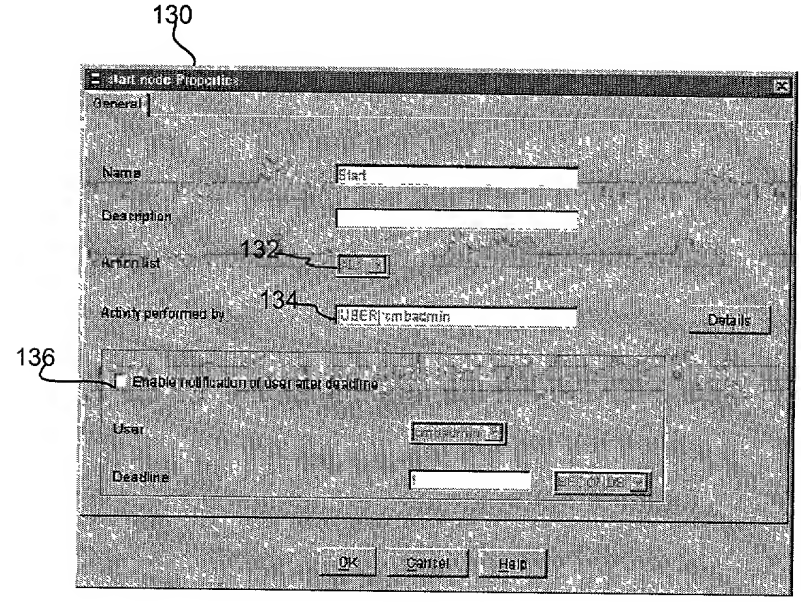
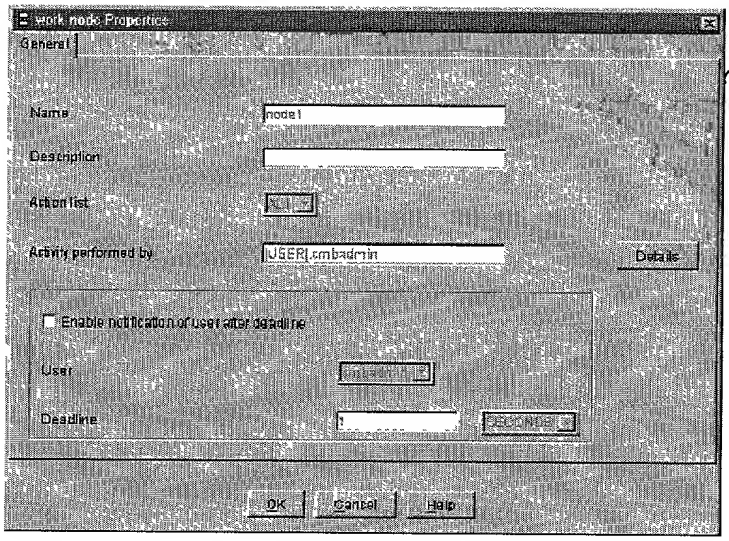


FIG. 4

9598609v5 - 9598609v1

FIG. 5



150

FIG. 6

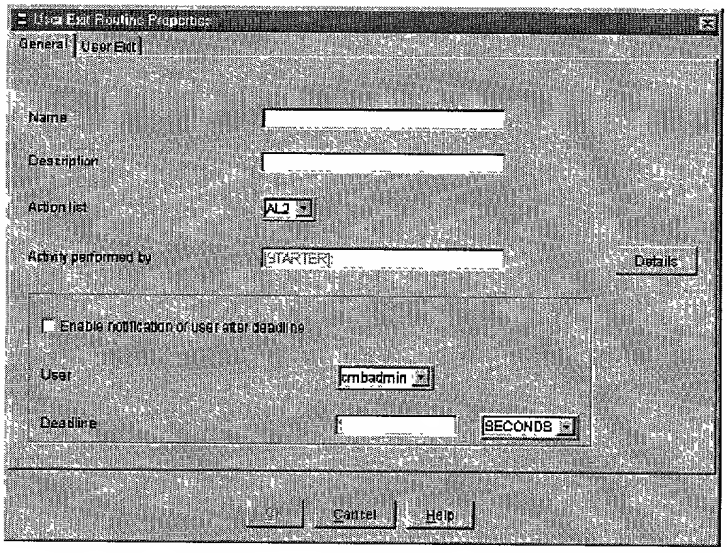
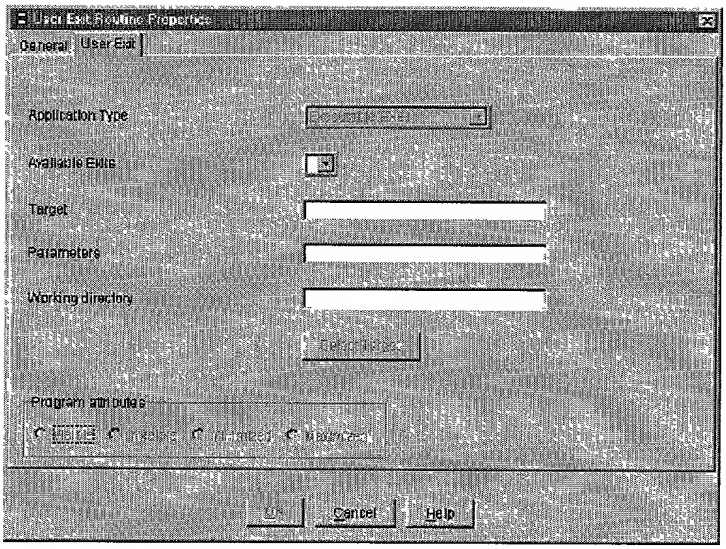


FIG. 7


General
User Exit
Application Type
Available Exits
Target
Parameters
Working directory
Program attributes
OK
Cancel
Help

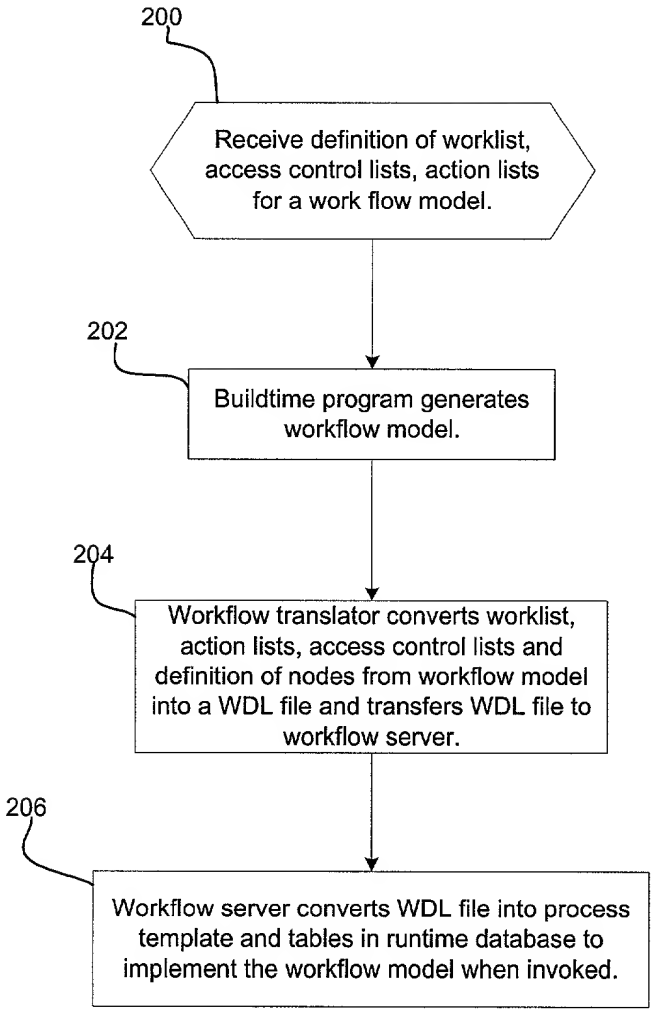
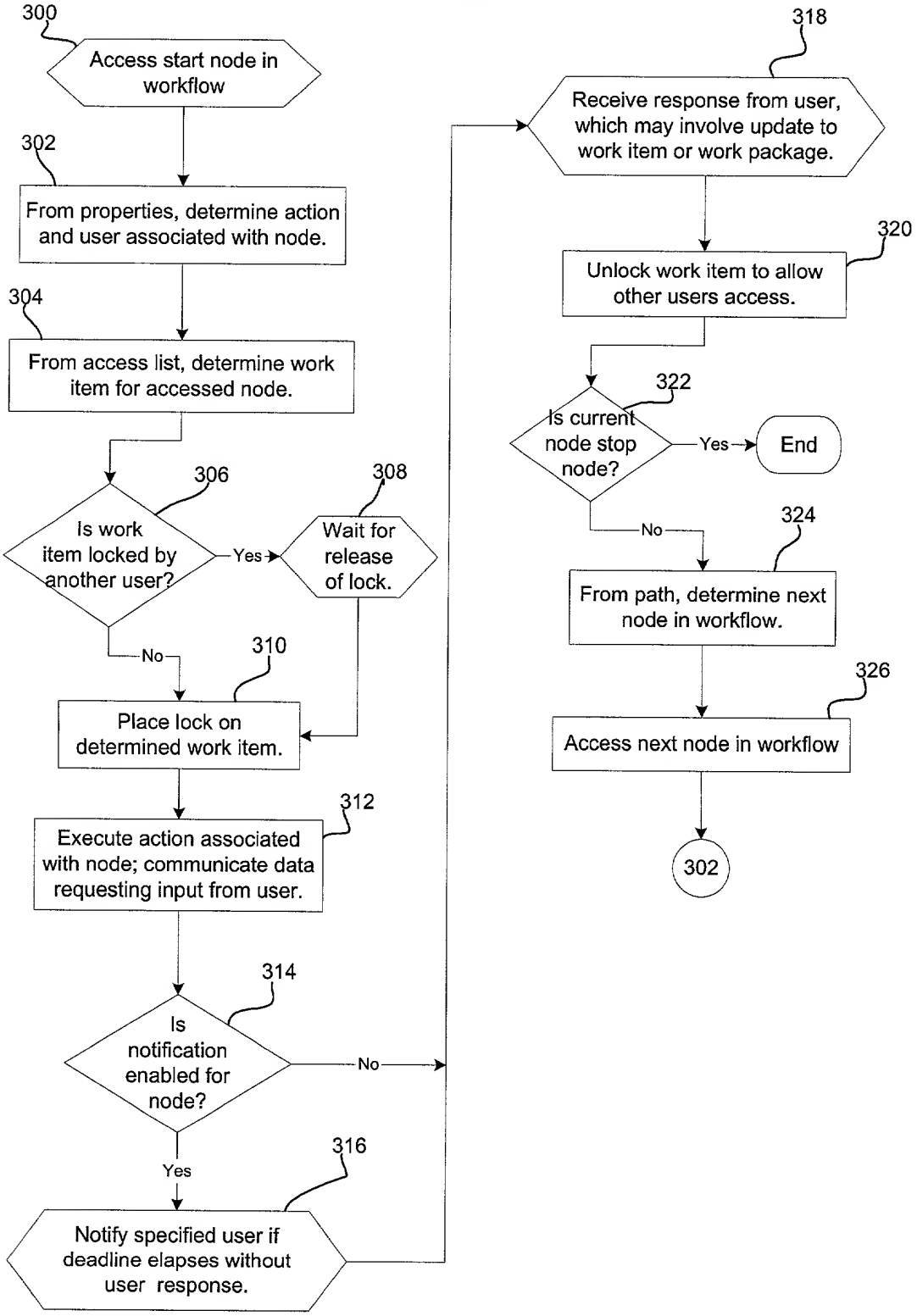

200
Receive definition of worklist, access control lists, action lists for a work flow model.
202
Buildtime program generates workflow model.
204
Workflow translator converts worklist, action lists, access control lists and definition of nodes from workflow model into a WDL file and transfers WDL file to workflow server.
206
Workflow server converts WDL file into process template and tables in runtime database to implement the workflow model when invoked.

FIG. 8

FIG. 9


300
Access start node in workflow
302
From properties, determine action and user associated with node.
304
From access list, determine work item for accessed node.
306
Is work item locked by another user?
Yes
308
Wait for release of lock.
No
310
Place lock on determined work item.
312
Execute action associated with node; communicate data requesting input from user.
314
Is notification enabled for node?
No
Yes
316
Notify specified user if deadline elapses without user response.
318
Receive response from user, which may involve update to work item or work package.
320
Unlock work item to allow other users access.
322
Is current node stop node?
Yes
End
No
324
From path, determine next node in workflow.
326
Access next node in workflow
302